

CPSC 4910 Section 1

Seminar in Professional Issues II

Fall 2019

Instructor

Professor Roger L. Van Scoy

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Office hours: Monday 1pm-3pm & Tuesday, 8am-10am and by appointment (please send an email)

Teaching Assistant(s)

Geoff Musick

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Office/Office hours: To Be Announced

Class Meeting Times

Lecture: Mondays & Wednesdays, 11:15am-12:05pm, Lehots 138

Laboratory: Tuesdays & Thursdays. You are required to attend a lab section (CPSC 4911) for the course.

Final Exam: Tuesday, 12/10 @ 8am in Lehots 138

Attendance Policy

Attendance during lectures and lab sessions is mandatory (unless explicitly excused by the instructor or the lab TA). Attendance will be taken randomly in this class and in lab. If you miss a class, check the announcements in Canvas and your classmates about missed material. You do not need to notify the instructor in advance of a planned absence, except in cases of extreme or emergency circumstances that will result in you missing more than one week of classes. Excessive missed classes will impact your final grade.

Communication

We will use Canvas (<http://www.clemson.edu/canvas/>) for exams, assignments and announcements.

There will be a weekly announcement outlining the assignments and readings due that week. The course schedule will be conveyed via Canvas.

All email to the instructor and TA(s) must come from your Clemson email address. Please allow 24 hours for instructor and TA(s) to respond to your email on weekdays, and 48 hours on weekends/breaks.

I will not correspond with your parents or guardians about your grades.

Class Cancellation

Students are expected to wait for 15 minutes after the beginning of a lecture before leaving if the instructor is late and no announcement has been posted to Canvas.

Academic Continuity Plan

Clemson has developed an academic continuity plan for academic operations. Should University administration officially determine that the physical classroom facility is not available, class will be conducted in a virtual (online) format. The University issues official disruption notifications through email/ www/ test notification / social media. When notified, use one of the following links to navigate for Clemson Canvas, where you will find important information about how we will conduct class:

- Primary access link: www.clemson.edu/canvas (or the Canvas student app)
- Secondary access link, if needed: <https://clemson.instructure.com/>
- Also check Piazza for any instructor announcements

Our activities for teaching and learning will occur through our Canvas course. This includes posting of a Canvas module with lecture materials, assignments, and further instructions.

On E-Learning Day, August 29, 2019, a real-time test of the Academic Continuity Plan will be conducted. Our class has a lab scheduled on E-Learning Day. The TA and I may post online material and assignments that can be reviewed during the scheduled lab time. You are also expected to continue your team project work during E-Learning Day. Every team has its own Canvas group on the course page. You are encouraged to use the Canvas “Discussions” feature on your group page to coordinate with your team.

Course Description

Considers the impact of computing system development on society. Discusses ethical issues in the design and development of computer software. Students discuss standards for professional behavior, the professional’s responsibility to the profession, and techniques for maintaining currency in a dynamic field.

Topical Outline

- Effective teamwork
- Agile Project Management
- Software Testing
- Professionalism
- Professional ethics
- Professional development and lifelong learning
- Work-life balance
- Special topics

Prerequisites

CPSC 3720 and junior standing

Course Workload Expectations

This is a 3 credits course. You should expect to spend, on average, 9 hours per week on this class.

There are two lab sessions per week that are reserved for group project work and team meetings. Lab attendance is mandatory, and attendance will be checked regularly and will count for part of your participation grade. The group project and team assignments are an essential part of the course and account for over 50% of your final grade.

It is expected that you will complete group work at a high level of rigor and professionalism that reflects this time commitment. The project will include solving real-world problems identified by the course

instructors. If you do not contribute to your team, you will not only receive a poor grade in the course, but you will also let your team down and give a poor impression of your reliability and the quality of your work.

Learning Outcomes

At the end of the semester, all students should be able to do the following:

1. Discuss common behaviors that contribute to the effective functioning of a team.
2. Describe the mechanisms that typically exist for a professional to keep up-to-date.
3. Identify ethical issues that arise in software development.
4. Generate documentation for a team-based project that meets standards.
5. Describe ways to manage work-life balance.
6. Define and implement a software system based on specifications.

Grading Information

Number & Type of Assessment	Points per Assessment	Total Points
Attendance/Participation (1)	100 points	100
Weekly Team Agile Planning (8-10)	10 points	100
Weekly Team Agile Demo (8-10)	10 points	100
Personal Agile Planning & Code (8-10)	10 points	100
Quizzes & Assignments	5-20 points	100
Midterm Project Presentation	100 points	100
Team Project and Demo (1)	600 points	600
Total Points		1200

Letter grades are assigned according to the standard 10% scale (i.e. A: 90%-100%, B: 80%-89%, C: 70%-79%, D: 60%-69%, F: 0%-59%). All exams and quizzes are closed book (no book, no internet, or other resources allowed) unless otherwise indicated at the time of the assessment. These point totals may change during the semester. There are no extra credit opportunities in this course.

Team Project

The goal of CPSC 4910 is to provide upper division Computer Science students a value-added senior design learning experience. Students work in teams of three to four individuals on a semester-long, team-based software development project. It is the student's responsibility to plan and implement a significant software project as a team. This includes navigating the difficulties of working in a team as well as learning any new technologies needed to implement the team's project vision. This is intentionally an open-ended project where the final result is driven by the team's decisions and actions. As part of this project, students will complete the following assignments and milestones:

Week	Activities
Weeks 1-3	Team Selection, Project Planning & Development Setup
Weeks 4-13	Work in a team environment with <u>minimal</u> supervision Plan, Code & Test in APM
Weeks 13-15	Final Project Presentation Final Exam

More detailed instructions will be posted on Canvas as needed.

Materials

Selected readings will be assigned throughout the course. These readings will be drawn from books available via Safari Books Online (<https://libraries.clemson.edu/news/2018/10/02/safari-books-online/>). As a student at Clemson, you can access the Safari Books Online content free of charge using your Clemson email address. You will need to use the link above and create your Safari account. All the readings for this course will come from material on Safari Books Online.

Professional Society Membership

There are two leading organizations for computer professionals:

- Institute of Electrical and Electronics Engineers (IEEE)
<https://www.ieee.org/>
- Association for Computing Machinery (ACM)
<https://www.acm.org/>

Both organizations offer student memberships and a large collection of publications and other resources to help you in your classes and future career. They support the professional growth of their members by providing opportunities for life-long learning, career development, and professional networking. It is strongly suggested that you have a membership in one of these organizations. As professionals in computing, you are expected to keep up to date with advancements in the field and engage in life-long learning; a membership in one (or both) of these organizations will help you.

Laptop Usage

You will need to bring your laptop to some lectures and team meetings to complete assignments and to plan and track your teamwork. There are rules with regards to electronics in class that you are required to observe not only as a courtesy to your classmates but also to assure that you have the best opportunity for a positive learning experience:

- Laptop and phone speakers and alarms must be set to mute or off before coming to class.
- All social media sites, games, etc. must be turned off during class. If you engage in unauthorized communication or entertainment during class (e.g. surfing the web, instant messaging, playing games, etc.), you will be asked to close your laptop. These activities not only distract yourself, but also people seated near you. If such activities occur during an exam or quiz, it constitutes academic dishonesty (see below).
- The use of headphones is prohibited during class.

Mobile Devices

Please silence your devices before class. Do not text or play games during class.

Recording Devices

Lectures may not be recorded without the written permission of the instructor, and you do not have the instructor's permission to use notes from the lectures for commercial lecture note purposes.

Inclement Weather Policy

In case a scheduled class meeting is cancelled due to inclement weather, any assignments due or examinations scheduled for that day will move to the next regularly scheduled class meeting, unless otherwise announced by the instructor.

Academic Integrity Statement

As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a "high seminary of learning." Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others.

Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree.

Therefore, we shall not tolerate lying, cheating, or stealing in any form.

Accessibility Statement

Clemson University values the diversity of our student body as a strength and a critical component of our dynamic community. Students with disabilities or temporary injuries/conditions may require accommodations due to barriers in the structure of facilities, course design, technology used for curricular purposes, or other campus resources. Students who experience a barrier to full access to this class should let the professor know and make an appointment to meet with a staff member in Student Accessibility Services as soon as possible. You can make an appointment by calling 864-656-6848, by emailing staccess@lists.clemson.edu, or by visiting Suite 239 in the Academic Success Center building.

Appointments are strongly encouraged - drop-ins will be seen if possible, but there could be a significant wait due to scheduled appointments. Students who receive Academic Access Letters are strongly encouraged to request, obtain and present these to their professors as early in the semester as possible so

that accommodations can be made in a timely manner. It is the student's responsibility to follow this process each semester. You can access further information here: <http://www.clemson.edu/campus-life/campus-services/sds/>.

Title IX (Sexual Harassment) Statement

The Clemson University Title IX (Sexual Harassment) statement must be included: Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran's status, genetic information or protected activity in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972. This policy is located at <http://www.clemson.edu/campus-life/campus-services/access/title-ix/> . Ms. Alesia Smith is the Clemson University Title IX Coordinator, and the Executive Director of Equity Compliance. Her office is located at 110 Holtzendorff Hall, 864.656.3181 (voice) or 864.656.0899 (TDD).

Changes

Lecture topics and assignments are subject to change. The course syllabus is a general plan for the course; deviations to the class may be necessary and will be announced to class by the instructor.